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CENTRAL INTELLIGENCE AGENCY

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INFORMATION REPORT

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SUBJECT Evaluation of Textbook on Machine Elements Now in Use at the Technical University of Warsaw

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THIS IS UNEVALUATED INFORMATION

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1. 25X1 a three-volume work entitled, Wyklad Elementow Maszyn, and written by Dr Inz Waclaw Moszynski, Professor of Mechanical Engineering at the Technical University of Warsaw. The work was published in Warsaw in 1949 by the Stowarzyszenie Inzynierow Polskich Mechanikow (SIMP). There is a publisher's note in the second volume that the first printing (four thousand copies) of Volume I was sold out within a few months of release. Volume I contains chapters on materials and their properties; welded joints; riveted fastenings; screwed fastenings; pipes and their connections; valves; stuffing boxes. Volume II (Bearing Design) contains chapters on plain bearings; ball and roller bearings; bearing housings (comprising heavy machine frames); shafts and axes; couplings and clutches; brakes. Volume III (Drives) contains chapters on friction drives; flexible transmission; toothed gears, kinematics; toothed gears, stress analysis; gear boxes. The author states in his preface that the text covers the entire series of lectures on the subject of machine design which are given at the Technical University of Warsaw as well as supplementary technical information which could not be included in the lectures. He states further that a fourth volume is in preparation (1949) which will treat of cams, transmission of motion by means of levers, cranks, valve gears and vibration of shafts.

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2. The course in the Design of Machine Elements at the Technical University of Warsaw /1953/ is taught in the second year and consists of four lecture hours a week plus four or five comprehensive drafting problems per semester. Moszynski's text is adapted for use in the European system of engineering training, whereby the study of such specialized subjects as lifting machines, boilers, steam engines, steam turbines, and internal combustion engines is incorporated in the third, fourth, and fifth year curricula. In his text, Moszynski presents a variety of design solutions for a typical machine element, considers stress analysis for various types of loading, and discusses allowable stresses and coefficients used in calculations and the influence of the shape of an object on casting processes and machining.

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3. there is no existing US or UK text which treats of the subject in the manner advocated by Moszynski. There are, of course, various English textbooks on particular design problems, but none in which these problems are assembled and studied in a detailed treatise on machine elements. One will find, for example, many books written on the subject of toothed gears, but the study of kinematics is usually confined to texts on mechanics of machinery and the study of stress analysis to the ... dealing with machine design. Rotscher's Maschinenelemente, published in 1924 and now [1953] out-of-date, is one of a few German texts which use the same approach to the subject as Moszynski.

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